



# SaaS with IoC (Internet of things in Construction) in AEC market

## IoC 統一智慧工地 系統平台「軟件即服務」

ITT is the leading One IoC  
Company for AEC Market

Architecture | Engineering | Construction

Environmental Technology in  
Developing Green Ecosystem  
以環境科技建構綠色生態

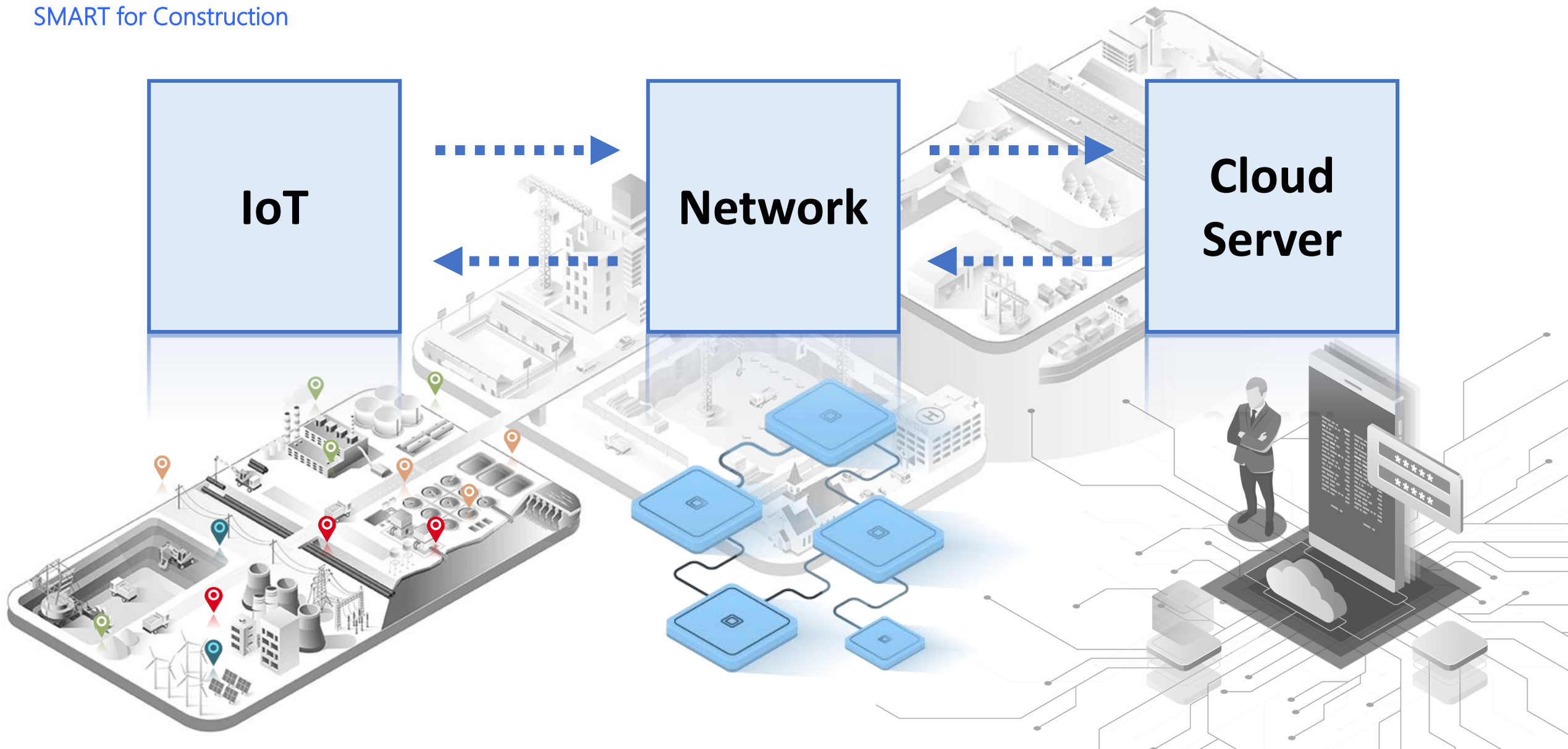


15<sup>th</sup> March 2022

# InfoSMART™

智高.智正 IoC Solutions

SMART for Construction





**No Identical Projects**

**Always Insufficient  
Construction Period**

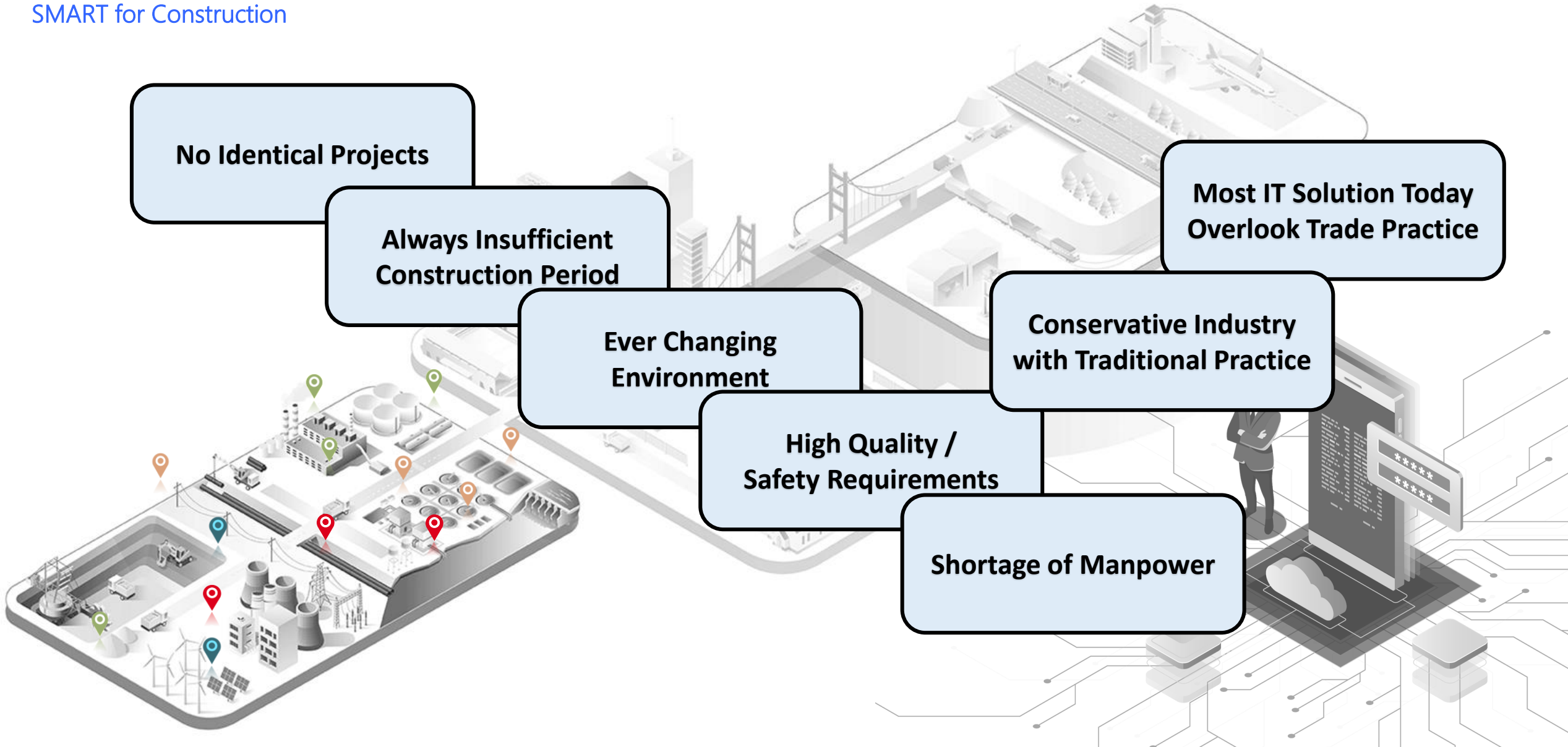
**Most IT Solution Today  
Overlook Trade Practice**

**Ever Changing  
Environment**

**Conservative Industry  
with Traditional Practice**

**High Quality /  
Safety Requirements**

**Shortage of Manpower**

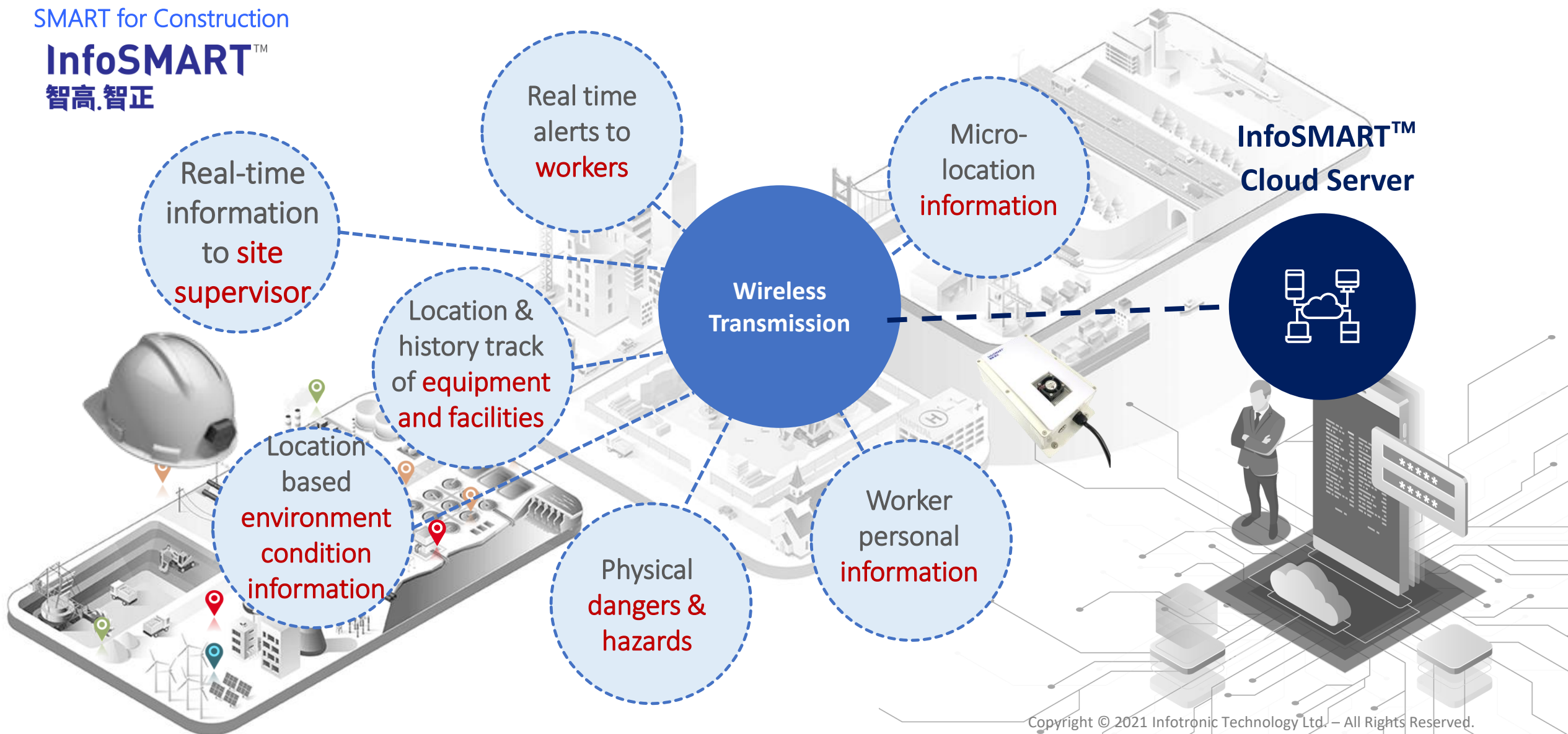


# InfoSMART™

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SMART for Construction

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# Safety

Active Safety Management

## Manpower

Attend



**SmarTag**

25gm, weatherproof  
2.5 years battery

## Plant Equipment

Resources



**ObjecTag**

GPS, weatherproof  
2.5 years battery

## Quality Defect

xTrack



**Digital Landmark**

100gm, weatherproof  
1-5 years battery

## Progress Inspection

Monitor



**Remote Management**

DWSS  
MiC / Façade, GPS





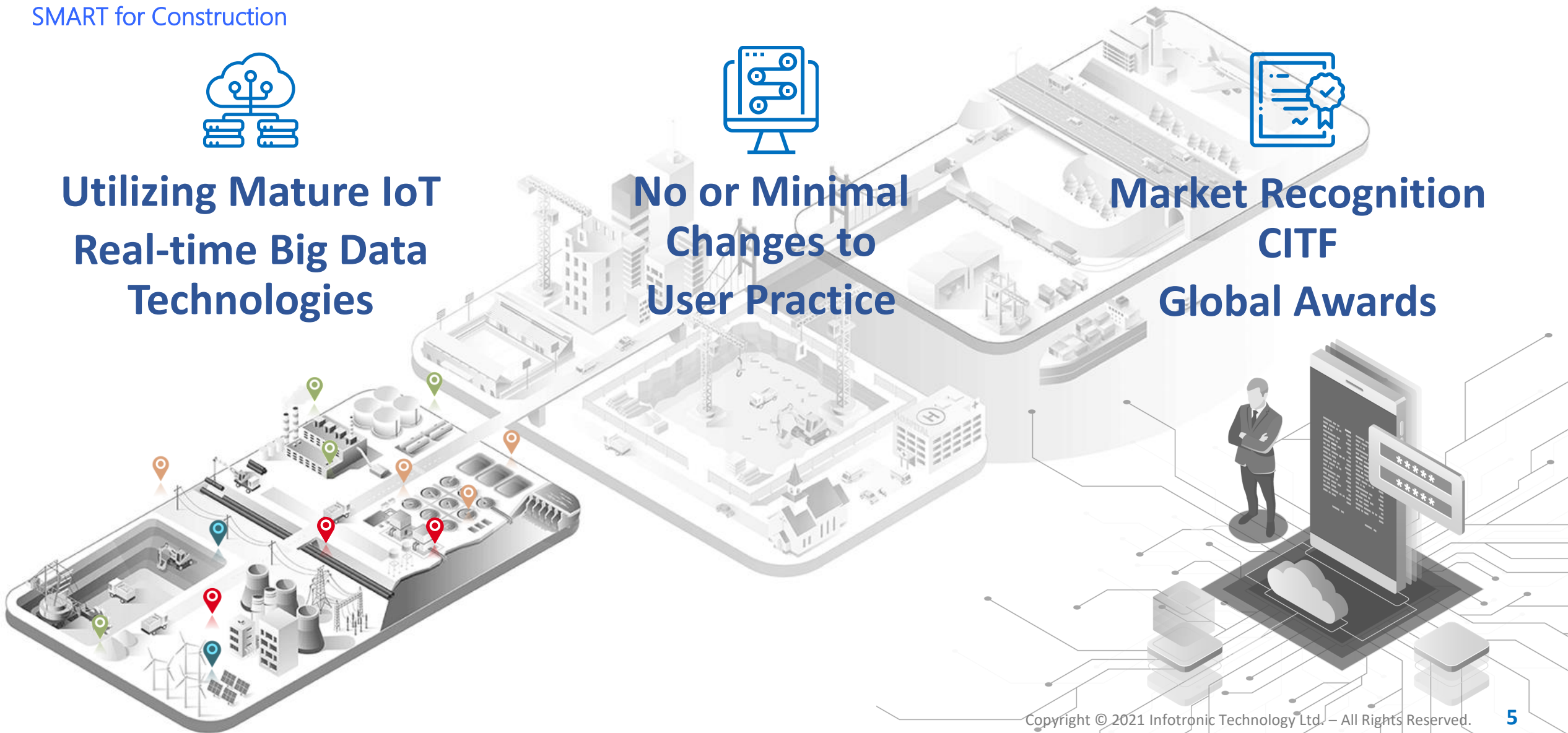
**Utilizing Mature IoT  
Real-time Big Data  
Technologies**



**No or Minimal  
Changes to  
User Practice**



**Market Recognition  
CITF  
Global Awards**



# 人員管理

## 工人工地實時動態

依據工人出勤及工作動態實時實地記錄，  
有效的管理分析和調配

### 智正安全帽

- 重量只有26gm
- 內置一顆兩年半壽命的電池
- 工業級塑料外殼作三防保護（防水、防塵、防撞擊）

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### InfoSMART Linker

installed at Turnstile for daily pairing of  
the SmarTag with worker's ID card



# InfoSMART™ Attend

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Real time Worker Activity Tracking  
& Management System  
工地工人動態系統



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## SmarTag

wearable location sensor

Light - 25gm in weight

Robust - IP68 for all environment

Tough - Shock resistant structure

Hassle free - 2+ year battery operation



Worker Fleet  
Management

Production  
Analysis

Progress  
Management

Infection  
Tracking

Active Safety

Worker  
Management in  
Final Stage

Big Data / AI



# Convention Practice

## 2-men Team

- One hold description board
  - location / address
  - defect work description
- One take photo
  - copy / edit photo
  - report work
  - send out
- Time Lap
- Human Error
- Less of Credibility
- Not Centralized Data



Number: 2  
Building Name:  
Address: 200-202 Hoi Bun Road  
LMA Block No: 10204  
Photographic Record

Inspected by: WONG  
Inspection Report: 12  
Date: 27 August 2012



VED BY:  
Ground Floor Plan  
Source:  
Part plan of Building Plans  
SD ref.: 2/467/55  
Drawing No.:  
Approved Date: 27 OCT 1993  
Scale: N1:31



地點:  
內容:

R - 21



地點:  
內容:

R - 23



地點:  
內容:



地點:  
內容:

R - 22



地點:  
內容:

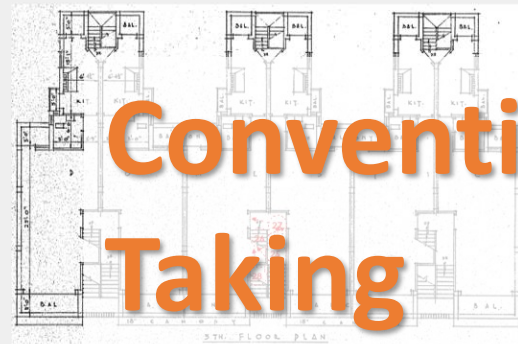
R - 24



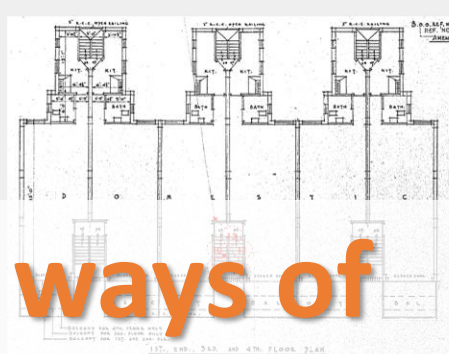
地點:  
內容:

Number: 3  
Building Name:  
Address: 200-202 Hoi Bun Road  
LMA Block No: 10204  
Photographic Record

Inspected by: WONG  
Inspection Report: 12  
Date: 27 August 2012



3rd Floor Plan  
Source:  
Part plan of Building Plans  
SD ref.: 2/467/55  
Drawing No.:  
Approved Date: 27 OCT 1993  
Scale: N1:31



3rd Floor Plan  
Source:  
Part plan of Building Plans  
SD ref.: 2/467/55  
Drawing No.:  
Approved Date: 27 OCT 1993  
Scale: N1:31

# Convention ways of Taking Defect Records

PHOTO RECORD - Final Defect of Public Area  
Premises: MG Tower, 133 Hoi Bun Road, Kwun Tong, Kowloon  
Date: 14 May 2012

R - 1



地點:  
內容:

R - 2



地點:  
內容:

R - 3



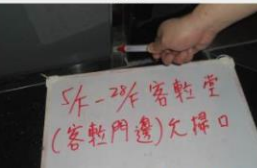
地點:  
內容:

R - 4



地點:  
內容:

R - 5



地點:  
內容:

R - 6



地點:  
內容:

PHOTO RECORD - Final Defect of Public Area  
Premises: MG Tower, 133 Hoi Bun Road, Kwun Tong, Kowloon  
Date: 14 May 2012

R - 13



地點:  
內容:

R - 14



地點:  
內容:

R - 15



地點:  
內容:

R - 16



地點:  
內容:



3rd Floor Plan  
Source:  
Part plan of Building Plans  
SD ref.: 2/467/55  
Drawing No.:  
Approved Date: 27 OCT 1993  
Scale: N1:31

PHOTO RECORD - Final Defect of Public Area  
Premises: MG Tower, 133 Hoi Bun Road, Kwun Tong, Kowloon  
Date: 14 May 2012

R - 7



地點:  
內容:

R - 9



地點:  
內容:



地點:  
內容:

R - 10

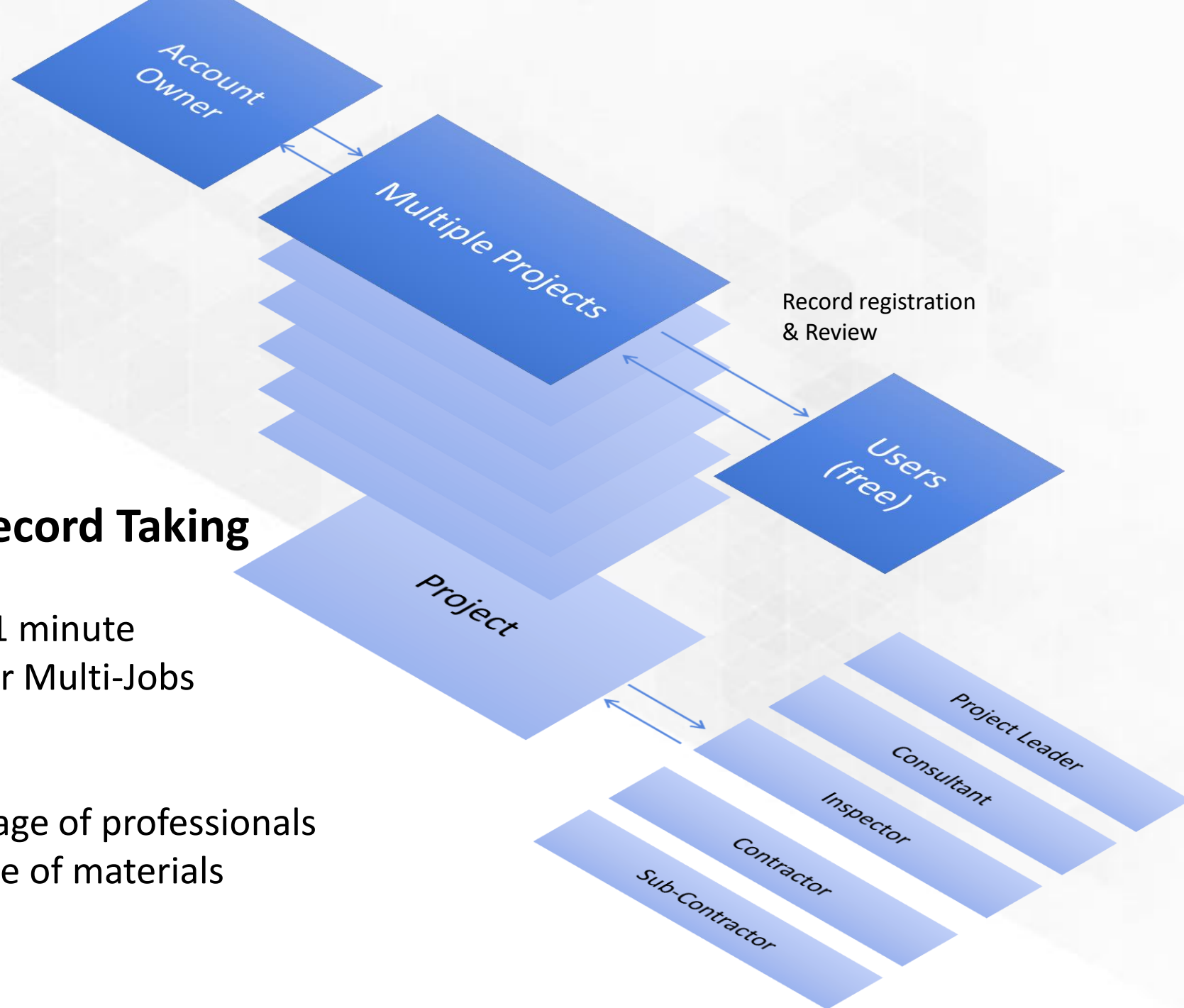


地點:  
內容:



## Good for Inspection and Record Taking

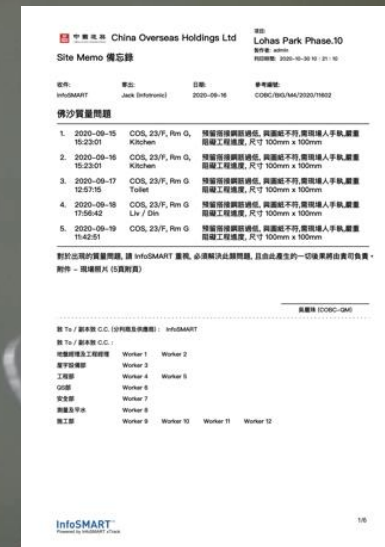
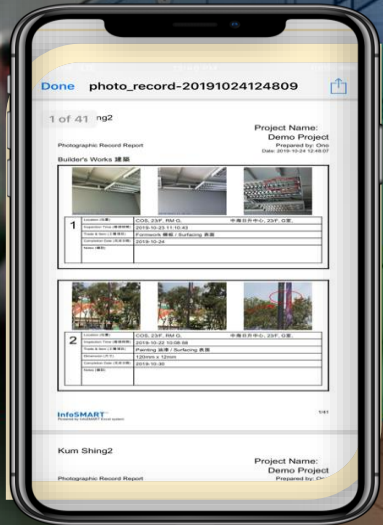
- Mobile + Cloud-base System
- One Day Jobs now finished in 1 minute
- Single Monthly Subscription for Multi-Jobs
- Increases efficiency
- Saves time and cost
- Resolves the problem of shortage of professionals
- Less of human errors and waste of materials



# InfoSMART™ xTrack

## 智高.智正

### Engaged Quality Assurance & Progress Tracking Management Solution 工程進度質管系統



Rectification Progress Prepared by Admin Printed at: 2019-09-14 17:30:33

Defects assigned	5219
5219	
5219	
5219	

Defects completed	591	11.32%
591		
591		
591		

Overview

Defects assigned	5219	as of 10/09/2019
5219		
5219		
5219		

Defects by trade

Defects assigned	5219	as of 10/09/2019
5219		
5219		
5219		

4. Total nos. of defects by location

Location	Defects assigned	Defects in progress	Defects closed	Defects pending	Defects completed	Total
101	545	442	160	122	122	1,289
102	345	287	56	133	133	1,021
103	545	473	75	79	230	1,323
104	873	213	660	120	220	1,883
105	845	697	148	155	400	1,645
106	724	821	103	824	367	1,938
107	887	510	267	1,420	600	2,284
108	862	602	300	1,150	800	2,712
109	1045	523	520	1,010	713	3,808
110	812	345	597	913	600	2,967

InfoSMART™



- Construction Progress & QA
- MiC / Façade Management
- Building Handover
- Owner Possession
- Facility Management
- Elderly Care
- Smart Hospital
- Smart City



# InfoSMART xTrack in MiC





# Plant Rooms

- Checklist for quality assurance and standard working procedure
- Maintenance Officer and Technician Attendance

## Switch Room



4/27/2022

## Pump Room

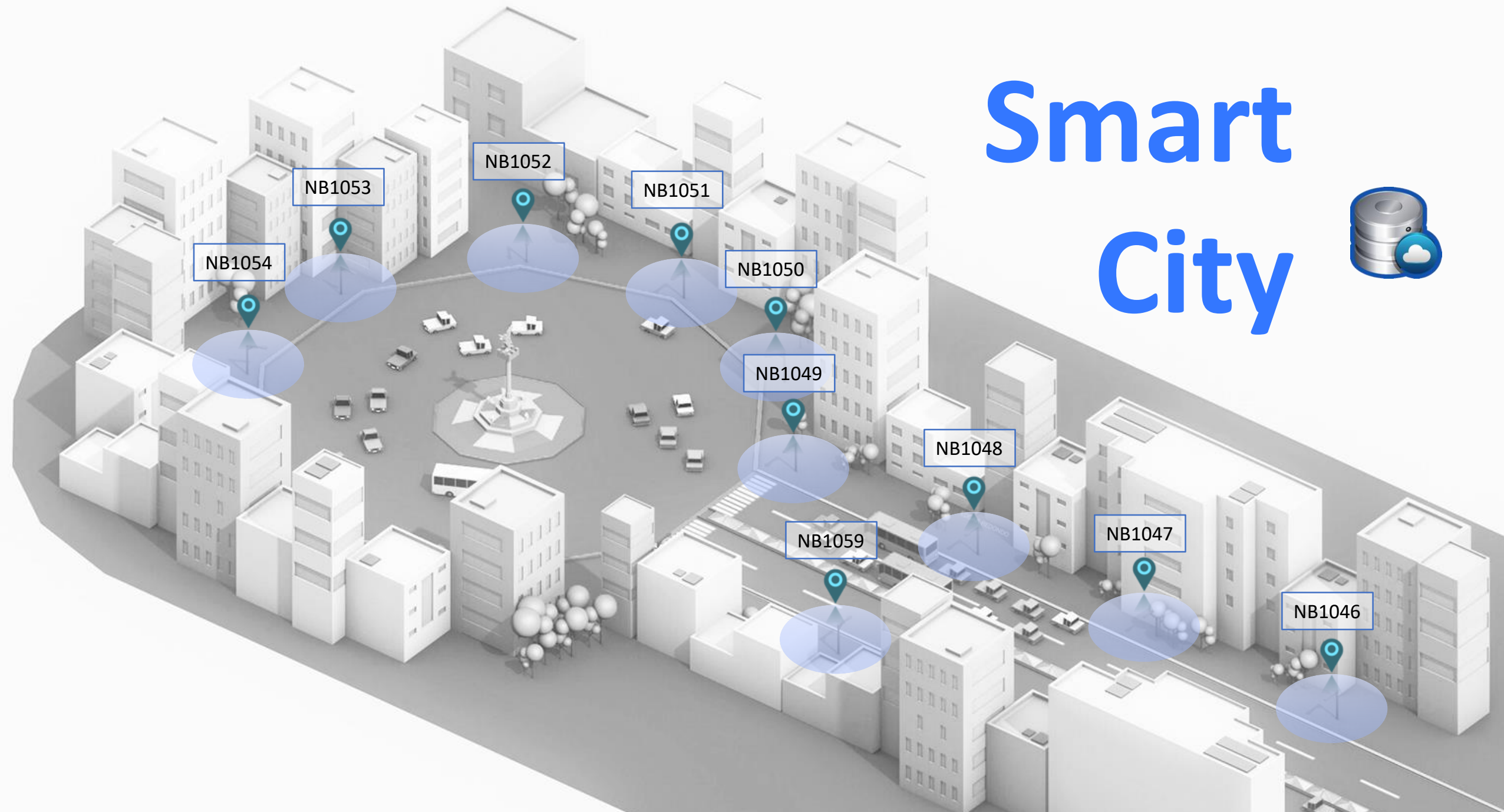


## Lift Machine Room





# Smart City





## InfoSMART™ Systems

- running full speed in push **Smart Construction** to the sites
- happy to participate in any events/projects relating to Smart Construction **SMART City** if we can be helpful



Solve Construction Pain Points / Live Up BIM

Construction Stage

MIC / DWSS

Property Management

Urban Redevelopment, MBIS

SMART City



# InfoSMART™

## 智高.智正

**Solve Construction Pains**  
**Live up BIM**

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